

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001271**Date Inspected:** 12-Aug-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Miscellaneous Metal, Cross Beam #3,**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Attend to project documentation review and filing. Also review Sea Transportation plan and coatings for supporting structures.

Miscellaneous Metal

Repairs to 330 +/- splice plates transported back from trial assembly for damage repairs from handling , negligent work practices, housekeeping and mechanical damages. Surfaces were re-abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 re-applied to amend repairs. Profile amplitude was 70-79um.

Cross Beam #3

ZPMC requested to apply final Top coat of Interfine 979 to external surface, however upon inspection some areas exhibited low DFT (Dry Film Thickness) on the bottom surfaces which required re-abrasive blasting and re-application of Interzinc 22. Internal surfaces were inspected and also found to require additional repairs consisting of abrasive blasting as well. ZPMC complied with repair requirements and chose not to apply topcoat at this time. ZPMC re-blasted visible rust areas on ceiling area internal surfaces and other locations internally along faying surfaces of bolted connections and re-applied Interzinc 22.

Lift 4 East

Internal surfaces in need of repairs were abrasive blasted to an SSPC SP-10 condition and re-application Interzinc 22 in the floor areas of the "T" stiffeners. Also localized areas of vertical surfaces of floor beams were repaired as

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well.

Miscellaneous Metal

Base metal surfaces of 110+- Splice plates were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Lift 4 East

ZPMC requested Final Inspection of internal surfaces prior to transport to the ship, request was rejected as weld repairs and NDT were incomplete and internal surfaces were not cleaned.

Lift 3 East

Internal surfaces and areas of weld repair damages were abrasive blasted to base metal and an SSPC SP-10 condition and Interzinc 22 applied. Work was performed at weld repair areas of Panel Points # 21 & 22 top of FL-2 floor beam longitudinal stiffeners and the ends of the "U" rib stiffeners.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley. International Protective Coatings technical service representatives were available for inspection and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
